

Harshal Lowalekar

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PERSONAL DATA

Name : Harshal Lowalekar
 Gender : Male
 Date of Birth : 20 April, 1983
 Place of Birth : Indore, India
 Marital Status : Married
 Office Address : Operations Management & Quantitative Techniques Area
 Indian Institute of Management Indore
 Prabandh Shikhar, Rau-Pithampur Road
 Indore-453556, Madhya Pradesh, India
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 Languages Known : English, Hindi and Marathi

EMPLOYMENT HISTORY

Associate Professor Nov 2016-Present
 Operations Management & Quantitative Techniques Area
 Indian Institute of Management Indore
 Indore, India

Assistant Professor May 2011- Nov 2016
 Operations Management & Quantitative Techniques Area
 Indian Institute of Management Indore
 Indore, India

Visiting Assistant Professor May 2010-May 2011
 Operations Management & Quantitative Techniques Area
 Indian Institute of Management Indore
 Indore, India

EDUCATION

Fulbright-Nehru Postdoctoral Fellow Aug 2013-Aug 2014
 W.P. Carey School of Business
 Arizona State University, Tempe, AZ, USA
 Project Title: *Application of Information Systems in Mitigating the Regional Level Supply-Demand Gap of Blood Products*
 Advisors: Dr. Ajay Vinze and Dr. Raghu T. Santanam

Fellow Programme in Management (equivalent to Ph.D.) Jun 2004-Apr 2010

Concentration: Production and Quantitative Methods

Indian Institute of Management Ahmedabad, India

Dissertation Title: *Integrated Model for Blood Bank Operations*

Advisors: Dr. N. Ravichandran, Dr. Devanath Tirupati and Dr. V. Venkata Rao

Bachelor of Engineering (B.E.) Jul 2000-Apr 2004

Concentration: Mechanical Engineering

Rajiv Gandhi Proudhyogiki Vishwavidyalaya

Bhopal, India

RESEARCH AND TEACHING INTERESTS

- Theory of Constraints
- Perishable Items Inventory Management
- Operations Management
- Simulation and Modeling
- Stochastic Processes

PEER REVIEWED PUBLICATIONS

1. Lowalekar, H., & Basu, S. (2019). Theory of constraints based mafia offer for supply chains of deteriorating products. **International Journal of Production Research**, 1-29 (Published online: 20 Aug 2019). [ABDC classification: A]
2. Modi, K., Lowalekar, H., & Bhatta, N. M. K. (2019). Revolutionizing supply chain management the theory of constraints way: a case study. **International Journal of Production Research**, 57(11), 3335-3361. [ABDC classification: A]
3. Lowalekar, H., & Ravi, R. R. (2017). Revolutionizing blood bank inventory management using the TOC thinking process: An Indian case study. **International Journal of Production Economics**, 186, 89-122. [ABDC classification: A*]
4. Lowalekar, H., Nilakantan, R., & Ravichandran, N. (2016). Analysis of an Order-up-to-level Policy for Perishables with Random Issuing. **Journal of the Operational Research Society**, 67(3), 483-505. [ABDC classification: A]
5. Lowalekar, H., & Ravichandran, N. (2015). A combined age-and-stock-based policy for ordering blood units in hospital blood banks. **International Transactions in Operational Research**. Published Online [ABDC classification: B]

6. Lowalekar, H., & Ravichandran, N. (2014). Blood bank inventory management in India. **Opsearch**, 51(3), 376-399. [ABDC classification: C]
7. Lowalekar, H., & Ravichandran, N. (2011). A model for blood components processing. **Transfusion**, 51(7pt2), 1624-1634. [SCImago Rank: Q1, Impact Factor: 3.111]
8. Lowalekar, H., & Ravichandran, N. (2010). Model for blood collections management. **Transfusion**, 50(12pt2), 2778-2784. [SCImago Rank: Q1, Impact Factor: 3.111]

MANUSCRIPTS UNDER PREPARATION

1. Suchdeo, M., Lowalekar, H., & Ravi, R.R. Application of theory of constraints (TOC) thinking processes in catering services: A case study. Targeted to **International Journal of Production Research**.
2. Lowalekar, H., Raghu, T.S. & Vinze, A. Effects of artificial agents based ordering on the supply chain performance of perishable items. Targeted to **Manufacturing and Service Operations Management**.
3. Lowalekar, H., & Basu, S. Markovian analysis of an order-up-to-level policy for perishables under stochastic supply. Targeted to **International Journal of Production Economics**.

PUBLISHED CASES

1. Lowalekar, H., Raghu, T.S. & Vinze, A. (2016). Model Blood Bank, Indore: Supply Chain Management of Blood Products. **Ivey Publishing** [Registration Number 9B16D018].
2. Lowalekar, H., & Ravichandran, N. (2012). Managing the Outpatient Department Waiting Time at Rajas Eye Hospital, **Indore Management Journal**, 4(1), 36-46.

CASES UNDER PREPARATION

1. Lowalekar, H., & Selvaraj, P. Health, Safety and Environmental (HSE) initiatives at Cummins Turbotechnologies Pithampur. Targeted to **Ivey Publishing**.
2. Lowalekar, H., Bhatta, N.M., Shariyarr, H., & Abhyankar, P. TOC implementation at Godrej Appliances Division (GAD). Targeted to **Ivey Publishing**.

PUBLISHED TECHINAL NOTES

1. Lowalekar, H. (2012). Spreadsheet Model for Student Evaluation and Grading, **Indore Management Journal**, 3(4), 67-74.

SIMULATION GAME

1. Lowalekar, H., Raghu, T.S., & Vinze, A. (2014). Blood Bank Game, **Arizona State University**, 2014. (link: bbgame.wpcarey.asu.edu)

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

1. Lowalekar, H. (2014). Spreadsheet Modelling: A Technical Note, **Proceedings of the Advanced Workshop and Tutorial on Operations Research**, ORSI Ahmedabad, 116-122.
2. Lowalekar, H., & Ravichandran, N. (2013). A Simulation Based Model for Optimal Alignment of New Product (Scheme) to Market Segment: The Case of Indian Mobile Telephony, **Fourth National Conference on Management Science and Practice (MSP 2009)**, 23-34.
3. Lowalekar, H. (2013). Integrated Model for Blood Bank Operations, **Fourth National Conference on Management Science and Practice (MSP 2009)**, 1-8.

EDITED BOOKS

1. Nachiappan, S., Sambandam, N., & Lowalekar, H. (2012). Indore Management Journal: Special issue on Selected Reviewed Papers from ORSI (2010) and SOM (2010) Conferences, 3(2).

BOOK CHAPTERS

1. Lowalekar, H., & Ravichandran, N. (2015). Inventory management in blood banks. **Case Studies in Operations Research** (pp. 431-464). Springer New York. (Editor: Katta G. Murty).

CONFERENCE PRESENTATIONS

1. Lowalekar, H. (2019). Performance Measurement in Supply Chains, EURO 2019, Dublin, Ireland (23 - 26 June 2019)
2. Lowalekar, H. (2018). Theory Of Constraints Replenishment Solution For Managing Distribution Of Perishable Items, **INFORMS 2018**, Phoenix AZ, USA (4-7 Nov 2018)

3. Lowalekar, H. (2017). Markovian analysis of an order-up-to-level policy for deteriorating inventory with stochastic review intervals, **OR59 Conference**, Loughborough University (12-14 Sep 2017).
4. Lowalekar, H., Raghu, T.S., & Vinze, A. (2016). Effects Of Artificial Agents Based Ordering On The Supply Chain Of Perishables, **INFORMS 2016**, Nashville, Tennessee (12-16 Nov 2016).
5. Lowalekar, H. (2016). A Markovian Model For Blood Components Production System, **INFORMS 2016**, Nashville, Tennessee (12-16 Nov 2016).
6. Lowalekar, H. (2016). Implementing Theory of Constraints (TOC) Replenishment Solution: A Case Study, **ORSI 2016**, BIMTECH, Noida (12-14 Dec 2016).
7. Ravichandran, N. (presenter), & Lowalekar, H. (2016). Management of Patient response time in an Ophthalmology clinic. **European Conference on Operational Research Conference 2016**, Poznan (3-6 July 2016).
8. Suchdeo, M., & Lowalekar, H. (2016). Application of TOC thinking processes in catering services: a case study, **7th International Conference on Excellence in Research and Education (CERE)**, IIM Indore (5-8 May 2016).
9. Lowalekar, H. (2015). Markovian analysis of a replenishment policy for perishables under random supply environment, **Society of Operations Management (SOM) 2015**, IIM Calcutta (11-13 Dec 2015).
10. Lowalekar, H. (2015). Application of Theory of Constraints in Blood Banking, **INFORMS 2015**, Philadelphia (1-4 Nov 2015).
11. Lowalekar, H., Raghu, T.S., & Vinze, A. (2014). Blood Distribution Game, **INFORMS 2014**, San Francisco (9-12 Nov 2014).
12. Lowalekar, H. (2012). Reducing Waiting Time in the Outpatient Department at an Eye Hospital: A Case Study, **4th Conference on Research and Excellence**, Indian Institute of Management Indore, Indore.
13. Lowalekar, H. (2010). Integrated Model for Blood Bank Operations, **3rd Management Consultation on Healthcare in India (MCHCI)**, Indian Institute of Management Indore, Indore.
14. Lowalekar, H. (2009). Integrated Model for Blood Bank Operations, **2nd IIMA Doctoral Colloquium**, Indian Institute of Management Ahmedabad, Ahmedabad.

15. Vasudha, T., & Lowalekar, H. (2008). Karnavati Electricity Company Ltd., **3rd National Conference on Management Science and Practice (MSP)**, Indian Institute of Management Ahmedabad, Ahmedabad.
16. Lowalekar, H. & Ravichandran, N. (2007). A Spreadsheet based Simulation Model for Revenue Management in Mobile Telephony, **40th Annual Convention of Operational Research Society of India (ORSI)**, Indian National Science Academy, New Delhi.

WORKSHOPS AND SEMINARS

1. Lowalekar, H. (2017). Theory of Constraints and Logical Thinking Process, **CII National Level Competition on Six Sigma**, Bangalore (25-26 Sep 2017).
2. Iyengar, D. (presenter), & Lowalekar, H. (2017). How to Combine Theory of Constraints and Lean for the Best Operational Results, **APICS- Puget Sound Pro. Dev. Dinner Meeting**, Bellevue, WA (26 Jan, 2017).
3. Lowalekar, H. (2015). Application of Theory of Constraints (TOC), **CII One Day Master Class on Emerging Practices to Achieve Breakthrough Results**, Bangalore (8 Oct 2015).
4. Lowalekar, H. (2012). Spreadsheet Modeling, **Advanced Workshop & Tutorial on Operations Research 2012**, Indian Institute of Management Indore, Indore (22 -25 Aug 2012).
5. Lowalekar, H. (2012). Reducing Waiting Time in the Outpatient Department at an Eye Hospital: A Case Study, **Advanced Workshop & Tutorial on Operations Research 2012**, Indian Institute of Management Indore, Indore (22 -25 Aug 2012).
6. Lowalekar, H. (2012), Spreadsheet Modeling and Simulation, **Workshop for Operations Research Teachers**, Durgadevi Saraf Institute of Management Studies, Indore (14-18 Mar 2012).
7. Lowalekar, H. (2011). Modeling of Blood Bank Inventory Systems, **Workshop on Reliability and Maintainability**, Department of Mathematics, Holkar Science College, Indore (31 Oct- 4 Nov 2011).

RESEARCH GRANTS

1. **Fulbright Scholarship** (2013-14), Area of Specialization: Public Health, Institution: W.P Carey School of Business, Arizona State University, USA.

TEACHING EXPERIENCE

Doctoral level courses taught at Indian Institute of Management Indore

- Simulation Modeling and Analysis
- Theory of Constraints

Graduate level courses taught at Indian Institute of Management Indore

- Decision Analysis
- Quantitative Techniques
- Data Analysis for Decision Making
- Introduction to Spreadsheets
- Modeling and Analysis with Spreadsheets
- Business Research Methods
- Theory of Constraints
- Logical Thinking Processes
- Statistics
- Stochastic Processes

Executive level courses taught at Indian Institute of Management Indore

- Introduction to Probability and Statistics
- Theory of Constraints
- Logical Thinking Processes
- Quality Management
- Problem Structuring
- Theory of Constraints
- Lean Manufacturing
- Computing Tools for Business Decisions

CONSULTING EXPERIENCE

1. Recruitment of HR Managers, Senior Accounts Officer, Programmer (Regular and Contract) for Madhya Pradesh Poorva Kshetra Vidyut Vitaran Company Limited (2012).
2. Recruitment of Assistant Engineer, Junior Engineer, Accounts Officers for Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Limited (2012).

PROFESSIONAL AND SERVICE ACTIVITIES

Reviewer for the following journals:

- European Journal of Operational Research
- Transportation Research Part E: Logistics and Transportation Review
- International Journal of Production Economics
- Journal of the Operational Research Society
- International Journal of Procurement Management
- Opsearch
- Indore Management Journal
- Technology Operation Management

Administrative responsibilities at Indian Institute of Management Indore:

- Chair, Admissions, 1 April 2019- Present
- Coordinator, Integrated Programme in Business Analytics, 1 April 2019- Present
- Chair, IT facilities & ERP, 1 April 2018- 31 March 2019
- Coordinator, Himalaya Outbound Programme, April 1 2017- 31 March 2019
- Area Chairperson, Operations Management and Quantitative Techniques Area, April 1 2015- March 31 2017
- Member, Admissions Committee, September 2014- 31 March 2019
- Coordinator, Preparatory Programme, April 1 2015- 31 March 2019
- Coordinator, Certification Programme for Lean Six Sigma Facilitators, May-June 2015
- Coordinator of In-company Training programmes for SBI Life and NTPC Ltd.
- Coordinator of 4th edition of National Youth Conference, 2012

ACADEMIC ACHIEVEMENTS

- **Best Teacher Award 2019, 2016 and 2012** at Indian Institute of Management Indore (2019, 2016, 2012).
- **Best Thesis Proposal Award** in the “Production and Quantitative Methods” track at Doctoral Colloquium, an international conference organized by Indian Institute of Management Ahmedabad (2009).
- **Silver Medal** for securing 2nd rank in Mechanical Engineering in Rajiv Gandhi Proudhyogiki Vishwavidyalaya Bhopal (2004).

REFERENCES

Available on request